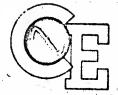
ATTN', I.B.M.C.E. LISTING RSOIC PROVIDENT MUTUAL LIFE



# Diagnostic Engineering Publications

4/15/64

#### 1410/7010

Subject:

Diagnostic Program RS01D

1442 Serial Card Reader and 7223 Console Card Reader Test

Sequence Number 513

Replaces RS01C and BZ50A

This program replaces and obsoletes RSOIC (1442 serial 1. card reader test), and BZ50A (7223 Console Card Reader test).

2. This level may be run from the TC50 tape.

3. C Level Test Decks (Ripple and Illegal Character) should be used with RS01D.

Enclosures: 31 Pages

Card Deck for CARD ONLY SYSTEMS (as punched by UP51)

8 Cards - Card Loader and Core Clear

77 Cards - Deck I 001-077

068 Cards No. 001-068

Data Cards

51 Cards - Deck II 078-128

1 Card

Execute Card

Distribution: X 1410 - With 1442 Serial Reader or 7223 Console Card Reader

7010

Other :

## RS01D

### SERIAL CARD READER TEST

(1442 MODEL 3)

(7223 Console Reader)

3/30/64

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#### 5.00.00.0 TEST DESCRIPTION

#### .00.1 Modifications

A. RS01D modifies and obsoletes RS01C and also obsoletes
BZ50A (7223 Console Card Reader)
The ability to test the 7223 console card reader has been
added to this version of the program.

#### .00.2 Description

- A. The 1442 Mod 3 Serial Card Reader or the 7223 Console Card Reader is tested for reliability while reading prepunched cards. The ability to interrupt and the cause of interrupt are also tested. The test can be run on Channel I or Channel II.
- B. Two decks of prepunched cards are used as input.
  - a. Deck I is a repeated or single 77 card deck, has legal characters, and is composed of sequentially numbered (001-077) rippled cards.

    A similar pattern is set up in storage, rippled, and a card-image-to-pattern comparison made for proper reading. Compare errors are signalled by typeouts and the display of card image and storage pattern.

Status Indicator ON errors are signalled by specific error typeouts.

If the Priority feature is included and is to be tested; the operator must turn the Priority Request Indicator ON. This, plus channel not busy, an interruptible instruction, and the entering of Priority Alert Mode, causes an interrupt. If there is no interrupt, an error typeout will follow. If the interrupt routine is entered properly, the cause of the interrupt is tested. If the cause was other than the proper settings of the Priority Request Indicator, an error typeout will follow.

During the reading of Deck I, the time between the first 2 consecutive clutch latch-ups is prolonged. As reading continues the time between latch-ups is progressively decreased.

b. Deck II is a 51 card illegal character deck numbered (078-128), each card containing one different illegal character randomly placed. This deck should be read with Asterisk Insert Switch ON.

If expected data checks do not occur, a typeout will signal the error.

Interrupt and its cause are tested as in B (a).

Clutch latch-up timing is not modified as in B (a).

#### .00.3 Equipment

Serial Card Reader 1442 Mod 3 or 7223 Console Card Reader. Processing Unit 1411 Mod 1, 2, 3, 4, or 5 (Minimum Storage - 10K) Console 1415

#### .00.4 Card Deck

Number of Cards	Sequence	Numbers in col.	78-80
7	Loader		
1	Core Clear		1 P
68	Program	001-068	
1	Execute Ca	rd	
Multiples of 77	*Repeated Ripple	Deck(I)	
	•	001-077	
51	*Illegal Characte	r Deck (II).	A 1
		078 - 128	

.00.5 E.C. Level of Machine

Serial Card Reader E.C. 805333 (all Suffixes)

## 5.00.01.0 LOADING PROCEDURES

01.1 FROM CARDS (Load Program LIA preceding Card Deck)

\* Decks I and II cannot be put on tape.

- A. 7010-1410 without Load Button.
  - 1. Display Memory Location 00000
  - 2. Alter to

vv v

RL%1100011\$. Enter according to channel location of the card
X II reader.

- 3. Set to Run, Computer Reset and Start.
- B. 7010 with Load Button
  - 1. Computer Reset
  - 2. Depress Load Button
- .01.2 FROM TAPE (80 Character Master or Memory Dump Tape)
  - A. 7010-1410 with out Load Button
    - 1. Display Memory Location 00000
    - 2. Alter to

vv v
RL%B000011\$. Enter according to channel location of the tape
X \( \mu \) drive.

- 3. Set to Run, press Computer Reset.
- B. 7010 with load button
  - 1. Computer Reset
  - 2. Depress Load Button
- 5.00.02.0 OPERATING PROCEDURES
  - .02.1 Switches
    - A. Asterisk Insert Switch must be ON to permit reading of illegal character cards.

B. When testing interrupt, it is necessary to turn on the Priority Request Indicator. To do this, set the Priority Select ON-OFF switch to ON, and dial Reader.

#### ..02.2 TAD's

A. Normal TAD's will not be requested, but may be inserted by the operator.

Location	Normal T	'AD's		
1000	TAD 0	off on	1	Normal typeouts Bypass typeouts (for scoping)
1001	TAD 1	off on	1	Proceed to next routine Loop the routine
1002	TAD 2	OFF ON	1 1	Continue on errors Halt on errors
1003	TAD 3	OFF ON	1 1	One pass of program Repeat program

Normal TAD's are internally set to "bbbb".

## .02.3 Program Time Changes

By altering location - 3227 to N, any latch-up time interval may be made constant throughout the ripple deck run.

By simultaneously altering location o 7294 and c7399 . progressive latch-up time interval may be shortened(by increasing the constants) or lengthened (by decreasing the constants).

## 5. bb. 03. 0 OPERATING HINTS, COMMENTS

## 03.1 Choice of Input Machines

RS01 can be read into storage from tape, or from a 1402 Mod 2 card reader on a separate channel or from the S.C.R., or from the 7223 Console Card Reader.

#### 03.2 Illegal Character cards

If an illegal character card is lost or mutilated, any illegal character card may be substituted provided there is a "l" in column 77.

## 03.3 DUPLICATE ALL DECKS WHEN RECEIVED\*

- 03.4 Always check to see that the last card has been stacked. If the last card has not been stacked, Press Non Process Runout and Start.
- 03.5 "PASS" is the end of test.
- 03.6 When Running the 7223 a blank card must be added to the end of the test deck.

#### 5. bb. 04.0 PROGRAM STOPS AND RESTARTS

04.1 Stops, their Causes and Restart Procedures are given below in sequential order. An "N" in the left-hand margin signifies the stop is normal.

Stop Location	Cause	Restart Procedure
03157	Compare Error	Press Start to Continue
03688	Interrupt Did Not Take Place Properly	Check Priority Request It Should be on. Press Start to Continue
02742	Error Branch on Chan 1	Press Start to Continue
C3814	Error Branch on Chan 2	Press Start to Continue
63843	Branched on Second YlU	Press Start to Continue

<sup>\*</sup> If facilities are not available, send for new decks to Reliability and Serviceability Department.

Stop	Location	Cause	Restart Procedure
~	06023	Reader not Ready	Make Reader Ready Press Start to Continue
N	06180	To repeat test or no Channel Card Punched	Press Start or punch Channel Card
	26259	Data Check	Press Start, if 1002-1 to continue

#### 5. bb. 05. 0 TYPEOUTS

#### 05.1 Normal

"RS01D". Number and Suffix of Test

"READER NOT READY - MAKE READY AND PRESS START"

If there is no Feed Check, consider this a normal typeout.

If there is a Feed Check, it may be due to one or more of the following conditions:

- a. Misfeed error (covered separately).
- b. Card jam (reset button will not reset feed chk light).
- c. Card in wrong place (covered separately). Reset button
- d. Extra cycle taken will reset feed chk light
- e. Photocell malfunction (covered separately).
- f. Cover interlock switch operating.

"PASS" End of Test. This indicates that the end of file condition has been properly generated and tested by the program. RS01D branched to 400 to load the next diagnostic program.

"TO REPEAT TEST, PUT DATA CARDS IN HOPPER, MAKE READER READY, AND HIT START" when 1003 is a "1", program can repeat. When 1003 is not a "1", program will call in next test.

#### 05.2 Error

"CARD XXX DOES NOT GIVE EXPECTED DATA CHECK"

This message occurs when a card in deck II (illegal) is not recognized as an illegal character card. If this error is solid or intermittent, a translation problem exists.

"DATA CHECK - CARD NUMBER XXX - PRESS START IF 1002-1." Either CPU detects a parity error, or an error is detected by the hole count checking circuitry.

"CARD XXX DOES NOT COMPARE"

"CARD READS"

XXXXX ------XXX

"CPU CONTAINS"

XXXXX -----XXX

If location 1000 contains a "1", this message is bypassed.

"BRANCHED IF PRIORITY INQUIRY". The cause of interrupt was either an intentional Inquiry Request or a machine error.

"INTERRUPT DID NOT TAKE PLACE PROPERLY"

If the Priority Request Indicator has not been set ON properly
or there is a machine failure, there will be no interrupt.

"BRANCHED ON CHAN 1 OLAP"

"BRANCHED ON CHAN 2 OLAP"

"BRANCHED ON SECOND YIU"

Any one of the above 3 messages depicts an error, and shows that the cause of the interrupt was other than the first Y(I)U instruction.

"MISFEED ERR - VISUAL CK SHOWS NO CARD AT READ STATION - FIX CARD" The no transfer indicator has been tested and found ON. A reader-not-ready message will follow. After fixing card, make the reader ready and press START. The program will continue.

"WLR - FEED CHK OCCURRED AFTER READ INSTRUCTION-CARD IN WRONG PLACE OR JAM - IF CARDS OUT OF SEQUENCE DUE TO JAM, RELOAD ALL DATA CDS." The wrong length record indicator has been tested and found ON. Cards may or may not be out of sequence. Ready may or may not drop. The various combinations are listed below:

. (See page 10)

	Procedure	Due to
	Clear Jam	*
WLR	Make Reader Ready	(Reset button
Not ready	Reload All Data Cds	JAM will not reset
	e Press Start	feed chk light)
Out of bedgene	Remove Faulty Eject Cd if	* (Reset Button will
WLR	Present	Jam not reset feed chk
Not ready	Clear Jam if Present	light)
Not out of	Make Reader Ready	
Sequence	Press Start	Card in wrong place
Dogumen		
	Look for an obstruction in	Other than 80 strobes
WLR	one or more of the emitter	have been sent to CPU
Not Not Ready	disk slots	
*	THE STATE OF THE S	TES START IF

"DATA CHECK - CARD NUMBER XXX - PRESS START IF 1002-1"

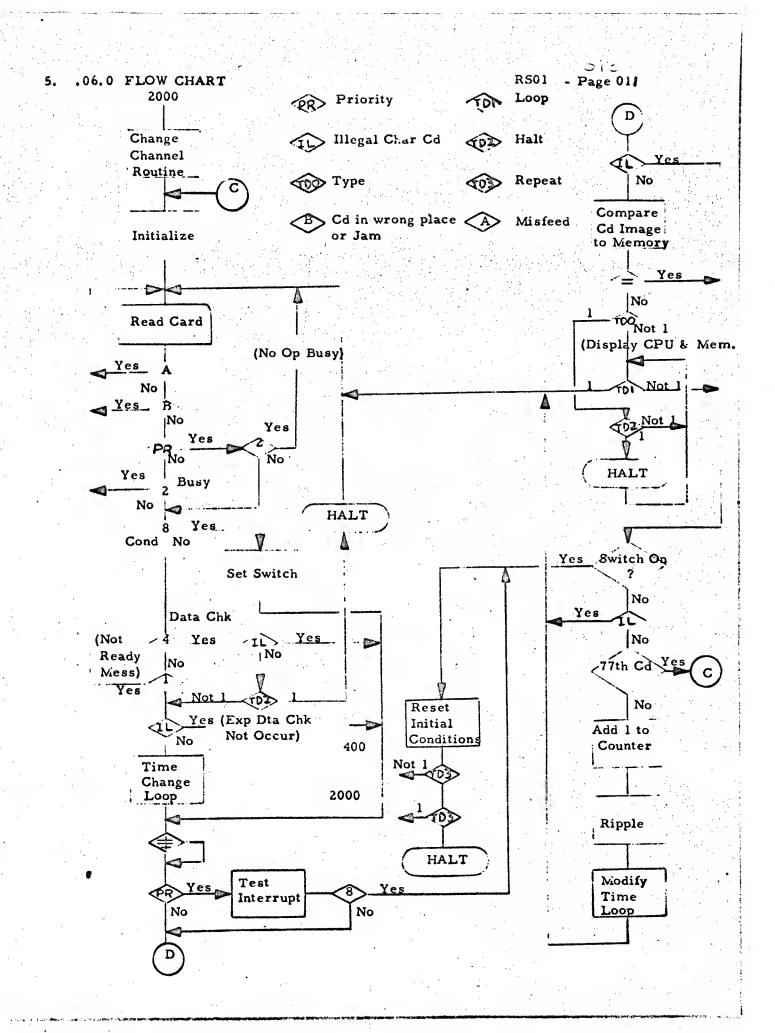
"CARD XXX DOES NOT COMPARE"

"CARD READS"
XXXXX -----XXX

"CPU CONTAINS"
XXXXX -----XXX

"READER NOT READY - MAKE READY AND PRESS START"
This combination of Data Check and Not Ready message equal a cell chk. The no-compare typeout tells the operator which photocell(s) is faulty. Chk non-process run out after clearing feed, or chk for faulty motion past the read station.

\*TRY RESET BEFORE OPENING COVER



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223 CARC REACERS						IICN CIGITS	•		TOW DO I TOWNER TYPE TOWN		I HALT-NCT 1,CC NCT				IERNAL TAD RCUTINE		SICRE BAR	ATER	RETURN ON ANY BUT WER & NT	PRACH NT	RESET INTERLECK	ENTER DATA-ACCRESS MCCFIER	RETRN CN ANY BUT NER	RESET INTERLECK	RETRN TO MAIN PREGRAM			SYSTEM CONTROL CONSTANTS			_		XILL OCALLA			
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N		10028	10038	1004	5001 - 7	7001	1001	1008	1009	1010	1101	1012	1013	1014	1015	9101	1017	1018	6101	1020	1021	1022	1023	1024	1625	1026	1028	1624	10308	1031\$	1032	1033	1034	1035	1036\$	)

5 I

C.

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PGL IN	LABEL	CPCCD	CPERANC	CT ADDRS	Z
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1039	*STANCARC SYSTEM	YSTEP	F CCN TROL CARC.		
1040	*****	****	· · · · · · · · · · · · · · · · · · ·		
1041		CRG	1256 CHARACTER & PURPCSE CCL	01256	
1042	SYSI	CC 23	4 8 ALPHA C.1.X - 1410,1410ACC.7CIC 17	1 01256	
1043	0 13 %	ນ	a a 0,1,3,5,7,9-10,20,40,60,80,100K 14	1 01257	
1044	3 23	ວລ	A A 1-BIT SHARED FILE SYSTEM 15	1 01258	•
1045	ວ <b>ເ</b> 3	ວວ	a a 1,2-CFALI 100,132 CHAR PRINTER 15	1 61259	
1046	3 73	CC	a a 1.2-CHAL2 100,132 CHAR PRINTER 17	1 01260	•
1047	บ 53	23	a a 1 BITEURCPEAN ECIT 19	1 01261	
1048			2-31150 CYCLE PChER		
1049	7 93	23	SPARE 15	1 01262	
1050	J 13	ນ	a a 1 - OVERLAP	1 61263	
1631	J 83	ာ	a a 1 - PRIGRITY ALERI	1 01264	
1052	20 113	ņ	a a SPARES 22-24	3 01267	
1053	2 13 C	ວວ	a a 1 - CHANNEL ONE PRESENT 25	1 01268	
1054	J E13	ن	a a 1 - CHANNEL THE PRESENT	1, 01269	W. 4
1055	3 713	ည	a a 1 - CHANNEL THREE PRESENT 27	1 01270	
1056	3 513	Ç	G G 1 - CHANNEL FOUR PRESENT	1 01271	
1057	3 213	Ų	a a SPARES 25-3r	2 01273	
1058	3 813	ņ	a a 1 - 1401 CCMPATIBILITY 31	1 01274	
1059	J 613	ິ	G & 1 BIT-TIMER INTERRUPT 37	1 01275	٠,
1060			2 BII-RELCCAIE AND PRCIECT		
1931			4 BIT-FLCATING PCINT ARITHMETIC		
1062	2 2 C C	ວວ	2 4 1 - PROGRAM ACCRESSABLE CLCCK 37	1 01276	
1063	23 163	ņ	a SPARES 34-44	11 01287	
1064	632 C	23	D#0	1 01288	

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1070	CRG	6 1269	9 CHARACTER & PURPCSE COL		
	CFN1 CC	(ಆ	I - PAPER TAPE REAUER		
101	DO 13	(4	1 - CCASCLE PRINTER 14	•	
1072	23 62	(4	1 - TAPES 729/733C		
1073	33 <b>113</b>	f <del>u</del>	SPARES 16-24		
1074	£12 CC	(4	. R.S.C - 14C2,1442,7223 REAUER 28	, · .	
1075	20 813	(4	8 - READER COLUMN BINARY FEAT. 24	•	
1076	20 713	ধে	P - 1462 FUNCE 27		
1011	20 513	(4	B - PUNCH CCLUMN BINARY FEAT. 29		
1078	20 913	(6	P - 1403 FRINTER 29		
1079	20 113	19	A.N ALPEA, NUPERIC PRINT CHAIN 3		
1080	OJ 813	ंख (ख	1.2 - 100.132 CHAR PRINT BUFFER 31		
1081	20 613	(4	F - 1301 FILE 37		
1082	20 02	(4	1 THRU 0 - 1 THRU 10 FILE MCCLLE33		*.
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1087	625 EC	(A	1 - SCAN FEATURE 3ª		· · .
1068	20. 923	( <b>4</b>	1 1 - TRACK RECCRD FEATURE 35		

PGLIN LABEL CPCCD CPERAND  1C5G			
LABEL CPCCO			RSCI
		CT ACERS	S INSTRUCTION
	37	1 01316	•
	ARMS IN MCCULE C 41	1 01317	7
	ARMS IN MCCLLE 1 47	1 01318	
	ARMS IN MCCULE 2 4"	1 01319	
	ARPS IN PCCLLE 3 44	1 01320	
	ARPS IN PCCULE 4 45	1 C1321	
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	7740 Ch THIS CHANNEL 47	1 01323	<b>6</b>
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	- CHAN HAS CHANNEL EXTENDER 49	1 01325	\$
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	.2.3-105C-1,2,CR BCIH ADAPIERS 51	1 C1327	
	-BIT-1412-MAGNETIC INK CHAR RERS?	1 01328	<b>&amp;</b>
	2-BIT-1415-MAGNETIC INK CHAR RER		
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642 CC	CIE INCUIRY 54	06610 1 01330	0
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	₹ €C-69	5 6134	4
112 856 CC 412		1 01345	· · · · · · · · · · · · · · · · · · ·

1115 **STANDARD CHANNEL 2 CCNRCL CARL.  1116 **STANDARD CHANNEL 2 CCNRCL CARL.  1117 CRG 1346 CHARCIER & PURPCSE CCL 1118 Chn2 CC a a 1 - Paper Tape ReaceR 1? 1 01346  1119 & 61 C a a 1 - Conscle Printer 14 14 101347  1120 & 62 C a a 1 - Tapes 7297733 C 146-24 5 01357  1121 & 61 C a a R*s,C - 1462-1442,7223 READER 2* 1 01358  1122 & 61 C a a R*s,C - 1462-1442,7223 READER 2* 1 01358  1123 & 61 C a a R*s,C - 1462-1442,7223 READER 2* 1 01358  1124 & 61 C a a P - 1402 FRINTER 2* 1 01364  1125 & 61 C a a P - 1403 FRINTER 2* 1 01364  1126 & 61 C a a P - 1403 FRINTER 3* 2* 1 01364  1127 & 61 C a a P - 1403 FRINTER 3* 2* 1 01364  1128 & 61 C a a P - 1403 FRINTER 3* 2* 1 01364  1129 & 61 C a a B - 1403 FRINTER 3* 2* 1 01364  1120 & 62 C a a 1 Thru 0 - 1 Thru 10 FILE **CCLLE3* 1 01364  1131 & 62 C C a a 1 Thru 0 - 1 Thru 10 ACCESSES 3* 1 01367  1132 & 62 C C a a 1 Thru 0 - 1 Thru 10 ACCESSES 3* 1 01367  1134 & 62 C C a a 1 Thru 0 - 1 Thru 10 ACCESSES 3* 1 01367  1135 & 62 C C a a 1 Thru 0 - 1 Thru 10 ACCESSES 3* 1 01367  1136 & 62 C C a a 1 Thru 0 - 1 Thru 10 ACCESSES 3* 1 01367  1137 & 62 C C a a 1 Thru 0 - 1 Thru 10 ACCESSES 3* 1 01367  1139 & 62 C C a a 1 Thru 0 - 1 Thru 10 ACCESSES 3* 1 01367  1139 & 62 C C a a 1 Thru 0 - 1 Thru 10 ACCESSES 3* 1 01367  1130 & 62 C C a a 1 Thru 0 - 1 Thru 10 ACCESSES 3* 1 01367  1131 & 62 C C a a 1 Thru 0 - 1 Thru 10 ACCESSES 3* 1 01367  1132 & 62 C C a a 1 Thru 0 - 1 Thru 10 ACCESSES 3* 1 01367  1139 & 62 C C a a 1 Thru 0 - 1 Thru 0 ACCESSES 3* 1 01367  1130 & 62 C C a a 1 Thru 0 - 1 Thru 0 ACCESSES 3* 1 01367  1131 & 62 C C a a 1 Thru 0 - 1 Thru 0 ACCESSES 3* 1 01367  1131 & 62 C C a a 1 Thru 0 ACCESSES 3* 1 01367  1131 & 62 C C a a 1 Thru 0 ACCESSES 3* 1 01367  1131 & 62 C C a a 1 Thru 0 ACCESSES 3* 1 01367  1130 & 62 C C a a 1 Thru 0 ACCESSES 3* 1 01367  1131 & 62 C C a a 1 Thru 0 ACCESSES 3* 1 01367  1131 & 62 C C a a 1 Thru 0 ACCESSES 3* 1 01367  1132 & 62 C C a a 1 Thru 0 ACCESSES 3* 1 01367  1133 & 62 C C a a 1 Thru 0 ACCESSES 3* 1 01367  1130 & 62 C C a a 1 Thru 0 ACCESSES 3*						
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CC			* * * * * * * * * * * * * * * * * * * *			
EI CC	× .	<u>د</u> د د				0134
CC       ā ā 1 - CCNSCLE PRINTER       14       1         CC       ā ā 1 - TAPES 7297733C       15       1         CC       ā ā R.S.C - 14C2.1442.7223 READER       2*       1         CC       ā ā R.S.C - 14C2.1442.7223 READER       2*       1         CC       ā ā R.S.C - 14C2.1442.7223 READER       2*       1         CC       ā ā R.S.C - 14C2.1442.7223 READER       2*       1         CC       ā ā P - 1402 FUNCH       2*       1         CC       ā ā P - 1402 FUNCH       2*       1         CC       ā ā P - 1403 FRINTER       2*       1         CC       ā ā A.N - ALPHA,NUFERIC PRINT CHAIN 3*       2*       1         CC       ā ā I JFR O - 17 FRU 10 FILE PUCLLE3*       3*       1         CC       ā ā I JFR O - 1 JFRU 10 ACCESSES 3*       2*       1         CC       ā ā I JFR U 0 - 1 JFRU 10 ACCESSES 3*       3*       1         CC       ā ā I JFR U 5 - I JFRU 10 ACCESSES 3*       3*       1         CC       ā ā I JFR U 5 - I JFRU 10 ACCESSES 3*       3*       1         CC       ā ā I JFR U 5 - I JFRU 10 ACCESSES 3*       3*       1         CC       ā ā I JFR U 5 - I JFRU 10 ACCESSES 3*       3*       1	CFN2	ည		11	٠.	1 01346
CC	<b>ω</b>			14		1 01347
CC	3		. ā ā 1 - TAPES 729/733C	<b>L</b>		1 01348
CC       â ă R,5,C - 14C2,1442,7223 READER       2°         CC       â ā P - 1402 FLNCh       27         CC       â â P - 1402 FLNCh       29         CC       â â P - 1403 FRINTER       2°         CC       â â I,2 - 160,132 CPAR PRINT BUFFER 3¹       1         CC       â â I IFRL O - 1 IFRU IC FILE MCDLE3³       1         CC       â â I IFRL O - 1 IFRU IC ACCESSES 3²       3°         CC       â â I IFRL O - 1 IFRU IC ACCESSES 3²       1         CC       â â I IFRL S - I IFRU IC ACCESSES 3²       1         CC       â â I IFRL S - I IFRU IS IMPAC MCDLE36       1         CC       â â I IFRL S - I IFRU IS IMPAC MCDLE36       1         CC       â â I IFRL S - I IFRU IS IMPAC MCDLE36       1         CC       â â I IFRL S - I IFRU IS IMPAC MCDLE36       1         CC       â â I IFRL S - I IFRU IS IMPAC MCDLE36       1         CC       â â I IFRL S - I IFRU IS IMPAC MCDLE36       1         CC       â â I IFRL S -	13		ā SPARES	16-24		5 C135
CC       ā ā B - REACER COLLPA BINARY FEAT.       27       1         CC       ā ā P - 1402 FLNCH       27       1         CC       ā ā B - PLNCH CCLLPA BINARY FEAT.       29       1         CC       ā ā P - 1403 FRINTER       25       1         CC       ā ā I,2 - 160,132 CHAR PRINT BUFFER 31       1         CC       ā ā I,2 - 160,132 CHAR PRINT BUFFER 31       1         CC       ā ā I THRL O - I THRU IC FILE NCCLE33       37         CC       ā ā I THRL O - I THRU IC ACCESSES 34       1         CC       ā ā I THRL 5 - I THRU IC ACCESSES 34       1         CC       ā ā I THRL 5 - I THRU S IMPAC MCCLE36       36         CC       ā ā I - SEEK CVERLAP FEATURE       37         CC       ā ā I - SCAN FEATURE       37         CC       ā ā I - IRACK RECCRO FEATURE       37	13	2 .CC	ā a R, S, C - 1402, 1442, 722	3 READER 2"		85810 1
CC       ā ā P - 1402 FLNCH         CC       ā ā B - PLNCH CCLUMN BINARY FEAT.       29         CC       ā ā P - 1403 FRINTER       25         CC       ā ā A,N - ALPHA,NUMERIC PRINT CHAIN 3C       1         CC       ā ā I,2 - 160,132 CHAR PRINT BUFFER 31       37         CC       ā ā I THRL 0 - 1 THRU 1C FILE MCDLLE33       1         CC       ā ā I THRL 0 - 1 THRU 1C ACCESSES 34       1         CC       ā ā I THRL 5 - 1 THRU 5 TMPAC MCDLLE36       1         CC       ā ā I THRL 5 - 1 THRU 5 TMPAC MCDLLE36       1         CC       ā ā I - SEEK CVERLAP FEATURE       37         CC       ā ā I - SCAN FEATURE       36         CC       ā ā I - TRACK RECCRO FEATURE       37	13		à à B - REACER COLLMN BIN	ARY FEAT. 24	•	0135
CC	13	4 CC	. 2 2 P - 1402 FUNCE	27		9E 1 0 1
CC       a a p - 1403 FRINTER       25       1         CC       a a nN - ALPFA,NUMERIC PRINT CHAIN 30       1         CC       a a 1,2 - 100,132 CHAR PRINT BUFFER 31       1         CC       a a 1 TFRL 0 - 1 TFRU 1C FILE MCDLE33       1         CC       a a 1 TFRL 0 - 1 TFRU 1C ACCESSES 34       1         CC       a a 1 TFRL 0 - 1 TFRU 1C ACCESSES 34       1         CC       a a 1 TFRL 5 - 1 TFRU 5 IMPAC MCDLE36       3         CC       a a 1 TFRL 5 - 1 TFRU 5 IMPAC MCDLE36       1         CC       a a 1 - SEEK CVERLAP FEATURE       37         CC       a a 1 - SCAN FEATURE       36         CC       a a 1 - TRACK RECCRO FEATURE       37	13	5 CC	E & B - PLNCH CCLLMN BINA	RY FEAT. 28		9610 1
CC       \$\beta\$ & \$\alpha_1 \neq \neq \neq \neq \neq \neq \neq \neq	13		a a P - 1403 FRINTER	56		23610 1
CC	13		1	RINI CHAIN 35		1 01363
EC       a a F - 1301 FILE         EC       a a I IFRL 0 - 1 IFRU 10 FILE FUDULE33         EC       a a I IFRL 0 - 1 IFRU 10 ACCESSES 34         EC       a a I IFRL 0 - 1 IFRU 10 ACCESSES 34         EC       a a I IFRL 5 - 1 IFRU 5 IMPAC MCGULE34         EC       a a I IFRL 5 - 1 IFRU 5 IMPAC MCGULE34         EC       a a I - SEEK CVERLAP FEATURE         EC       a a I - SCAN FEATURE         EC       a a I - IRACK RECCRO FEATURE	13		a a 1,2 - 100,132 CHAR PR	INT BUFFER 31	•	1 01364
CC	13		a a F - 1301 FILE	32		9610 1
CC       a a 1 THRL 0 - 1 THRU 1C ACCESSES 34         CC       a a R - 1311 TMPAC         DC       a a 1 THRL 5 - 1 THRU 5 IMPAC MCCLLE34         DC       a a 1 - SEEK CVERLAP FEATURE         CC       a a 1 - SCAN FEATURE         DC       a a 1 - TRACK RECCRO FEATURE	23	် ၁၁ ၁	- 1 TERU 10	FILE MCCLLE33		26 10 1
CC	23	23 1		ACCESSES 34		C136
CC & A I THRL 5 - I THRU 5 IMPAC MCCLLE36  CC & A I - SEEK CVERLAP FEATURE  CC & A I - SCAN FEATURE  CC & A I - TRACK RECCRO FEATURE  35	.23		a a R - 1311 INPAC			C136
CC a a 1 - SEEK CVERLAP FEATURE 37 CC a a 1 - SCAN FEATURE 39 CC a a 1 - TRACK RECCRU FEATURE 35	23			MPAC MCCLLE35	•	0136
CC & & I - SCAN FEATURE 398  CC & & I - IRACK RECCRU FEATURE 35	.23			URE : 37		C137
DC & & 1 - TRACK RECCRD FEATURE 35	, 23			38		6137
	23		& & 1 - TRACK RECCRD FEATO	CRE . 39		01372

						RS01 PAGE 7
PGLIN	LABEL	CPCCD	CPERANE		CT ACCRS	INSTRUCTION
1162						
1163	. SSTANDARD		TYPE RCLTINE 1.			*.
1164	IVPI	SeR	1YP265	STORE PESSAGE ACCRESS	7 01403	G 01422 B
1165		SBR	1YP368	SICRE PESSAGE ACCRESS	7 01410	G 01456 A
1166	TYP2	SCARG	J*3	FIND RETURN ADCRESS	12 01417	5 00000 00000 0
1167		SAK	179465	SET ACCRESS FCR EXIT	7 01429	G 01477 A
1168		BCE	IYF4. TADC. 1	EYPASS TYPING PER TAC C	12 01436	8 01472 C1C00 1
1169	[YP3	PCP.	ŭ	IYPE PESSAGE	10 01448	M TTO CCOCC M
1170	, , ,	ecu1	TYP3	TRY AGAIN IF BUSY	1 61458	K 0144# 2
1111		149	13.	RESET INTERLECK	7 01465	R C1472 F
1172	IYP4	£	ر ب ن	HETURN IC MASTER PREGRAM	7 01472	00000 「
1173		1		IERMINATE TYPE RCUTINE	61410 1.	•
1114	•	<b>5</b> .	CHANGE CHANNEL RC	RCLTINE		
1175						
1176		CRG	2002	•	32000	
1177	START	NCP	•		1 02000	Z
1178		Œ	CHANI	Che SHCT CHAN CHAGE	7 62661	J 02178
1179		83	וכנ י	HYPASS CHAN CHANGE	7 C2CCB	J 02441
1180	TART	CS	x15.		6 02015	65000 /
11615		ece .	THCK, SYS1613, 1	CHAN 2 AVAIL	12 62621	6 02064 01269 1
11828		PLChS	NN . RI	ACP PRICRITY INST-2	12 02033	0 07314 03514 7
11638		FLChS	NN CHENT	ACP PRICRITY INST-2	12 02045	0 07314 05008 7
11845		<b>3</b> 0	TARTE		7 02057	J 02100
1185\$	TACK	BCE	TAHTI, SYS169, 1	PRICRITY EXTENSION FEAT.	12 02064	6 021CC C1265 1
1186\$	-	PLChS	ANORE		12 62676	0 67314 63514 7
11675		FLChS	NN CREMI		12 02088	0 07314 05C08 7
11685	TARTI	Sk	X15-4,X1-4		11 C21C0	• 00095 00025
1189		FLWB	X15-4+X14-4	PUT NY CVER EVERY FI CRF	12 C2111	n occss cccso r
1150		BCE	CHANZ, CHNZE12, S	S CHAN2	12 C2123	B 02226 C1358 S
11511		ece	CHANA, CHN2612, C	C 7223 CCASCLE REM IN 2	: 12 02135	8 02202 01358 C
7511		BCE	JCC,CHN1612,S	CHANE	12 02147	8 02441 C1301 S
11536		HCE	JCCA+CFN1612+C	7223 CCASCLE RER CN 1	12 62159	B C2417 C1301 C
1154		, ·	*K118617	TRY VGAIN	12170 2	J 0618C
1155	C+AN1	PCP.	NUPBK	TYPE TEST AUPBER	10 02174	F ATC CL25C W
1156		148	91-0	ANA	7 02188	A REIZO W
7513		*	1741		7 621.15	J 02015

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RSCI	INSTRUCTION		0 07315	0 07315	16220 0	b 02262	0 07314	¥ 02310	26220 5	96110 5	J 0241C	J 02262	8 02353	B 02312	8 02391	J 02274	0 07188	J 62274	0 07286	J 62274	D 07285	J 62274	J 02441				\$1870 O	0 07315		D 06260	0 06268	D 07276	0 07268				< 30 TO F	01119
	AUDRS		C22C2	C2234	02220	62239	C2250	02262	C2234	02265	C2256	62363	01620	.02322	62334	02346	62353	65365	C2372	04384	16620	62463	01720				C2417	62429	02441	C2447	65429	C2471	C2483				65.20	C25C2
	5		12	12	7	12	21	7	<b>=</b>	=	~	<b>.</b>	71	7	75	<b>~</b> ~	12	~	7.	~	15	-	~				71	12	ę	<b>~</b>	12	13	15			1	<b>~</b> .	<b>v</b> .
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	4,	٠,			AUPBER	X.				#UT			×	•	<b>J</b> į								3717	٠.				• •	<u>.</u>	ART	PRICRITY	X REG	10					PCSI
					SET HIGH	PRICRITY	NCP PRICRITY	2.5	Sub 1	CPP WITH			LCCK FCR	LCCK FCR	LUCK FUR	NEXT CHAR	REPLACE R	NEXT CHAR	REPLACE \$	NEXT CHAR	REPLACE U	NEXT CHAR	TC INITIALIZE						SET SHLICH	PCVE RESTART	PCVE PRIC	LOAC INCEX	PCVE DATA	•			~	CLEAR EC
						-						· .		,				٠.		•		• ;	•	٥						•				· ·			: .	
	CPERANC	, V	ZZ,REACE2	22 PR ICR 22	£5ccc, x1	.£13,5Y51E9,	. NN . RZ	F, CEXI	£1, X1	£2259, 41	CIFER	<u>.</u>	POVX, OCXI,	PCYP, LEXI, 2	PCVU-66XI.L	SUET	EX,CEXI	SueT	102,16x1	Suer	EF,6EX1	Suer	יייי		INITIALIZE		ZZ ,HEACEZ	ZZ ,PRICREZ	SIARTEL	LAPELLOI	LAEELZ,ICI	ABC, K2	PCCAT, PCENE		REAC PCLTINE		2 -	FCREND
	כפכנו		FLCS 1	FLCS 1	FLChA .	908	PLChS .	40	S	U	BE	<b>.</b>	HCE .	BCE	BCE.	<b>a</b> D	PLChS		FLCS	30	PLCS	. <b>E</b> D	œ		14		FLCS	FLCS	ڻ	T EC	FRCIR	PLNhA	FLCA		REA		BAC	cs
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CT ACORS INSTRUCTION REAC A CARC REACH CA FISEEC ER	
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HE C25CB F X11 C71  AFTER REAC  PUSPECE ER  7 02525 R 02687  POTENTY  12 02525 R 02687  POTENTY  13 02525 R 02687  14 02526 R 02558  PUSP CHK  7 02551 J 02572  PUSP CHK  7 02551 J 02572  PUSP CHK  7 02552 R 02558  PUSP CHK  7 02553 J 02633  PUSP CHK  8 02663  PUSP CHK  9 02566 J 02663  PUSP CHK  9 02566 J 02663  PUSP CHK  9 02663  PUSP CHK  9 02663  PUSP CHK  9 02663  PUSP CHK  12 02663  PUSP CHK  13 02663  PUSP CHK  14 02663  PUSP CHK  15 02663  PUSP CHK  16 02663  PUSP CHK  17 02663  PUSP CHK  18 02663  PUSP CHK  18 02663  PUSP CHK  18 02663  PUSP CHK  18 02663  PUSP CHK  PUSP	Crean
AFTER REAC  AFTER REAC  AFTER REAC  PATER REAC  AT 02525 R 02687  PATER REAC  AT 02525 R 02687  AT 02529 B 02559 G  AT 02551 J 02572 G  AT 02559 R 02559 G  AT 02569 A 07177 G  AT 02569 A 07177 G  AT 02579 R 02579 02579 R 02579 R 02579 G  AT 02579 R	1.+CRC REAC A
AFTER NEAC  PATTER NEAC  PATTER NEAC  PATTER NEAC  PATTER NEAC  PATTER NEAC  SY CHK  TO 22532 B C2558 G  1 C2551 J C2572  1 C2558 N  1 C2558 N  1 C2558 N  1 C2558 N  1 C2559 R C2568 N  1 C2559 R C2569 G  1 C2569 R C2669 G  1 C2560 R C2660 G  1 C2561 R C2669 G  1 C2660 R C2660 R C2660 G  1 C2660 R C2660 R C2660 G  1 C2660 R	MESP BRNCH C
SY CHK  1 C2551 J C2556 G  SY CHK  1 C2551 J C2572  1 C2551 J C2572  1 C2559 N  1 C2569 N  1 C2691	PESC FEED CHK
SY CHK	BLSY, SYSIEB, 1 BRANCH
1 C2551 J C2572 EUSY CFK	READ NCRMAL
1 C2558 N EUSY CFK	רככא
EUSY CFK  6 02566 II 02559  1 02552 R 02585  1 02552 R 02585  1 02552 R 02685  1 02553 H 02652  1 02553 J 02838  PE  7 02563 J 02838  PE  7 02563 J 02838  PE  7 02663 J 02838  PE  8 02600  9 02660  9 02660  PE  8 02600  9 02660  9 02660  PE  8 02600  9 02660  9 02600  9 02660  9 02600  9 02600  9 02600  9 02600  9 02	
C C2566       H 02559         EACY       7 C2572       R C2985         INTLCCK       7 C2543       H 02600         INTLCCK       7 C2546       R 06000         INTLCCK       7 C2543       J 02486         NC CARCE       7 C2612       J 07742         PE       7 C2640       B C2676         PE       7 C2640       J C2678         PE       7 C2640       J C2678         PLACEA       35 C2663       J C7742         READD       37 C2669       J C2669         READD       37 C2669       J C7742         READD       37 C2669       J C7742         READD       37 C2669 <th< td=""><th>READ CNE SHCT</th></th<>	READ CNE SHCT
7   C2572 R C2585	1.1 NCC
FACY 7 C2579 K 02665 P C2600 INTLCCK 7 C2593 J 02838 P C2600 B	
FACY  1 C2543 J 02838  PE  12 C2600 B C268C  1 C2612 J 07742  1 C2612 J 07742  1 C2613 J 02838  PE  1 C2600 B C268C  2 C2676  2 C2676  1 C2640 J C25C8  PE  1 C2640 J C265C8  PE  1 C2640 J C26C8  PE  1 C2645 J C26C8  PE  1 C2667 J C26C8	<b>R1</b>
INTLCCK PE 12 C2600 B G268C RC6BC RC	ÇF
PE  NC CANGA  NC CANGA  NC CANGA  SS C2653  G  1 C2640 J C25C8  PE  12 C2647 H 02631  PE  12 C2647 H 02631  PLACEA  NCE LUE TG7  S1 C2736  READA  S2 C2768  NCE LUE TG7  READA  S2 C2768  NCE LUE TG7  READA  S3 C2768  NCE LUE TG7  READA  S4 C2859  C2859  CR PCVE  READA  READA  S2 C2768  NCE LUE TG7  READA  S2 C2768  NCE LUE TG7  READA  S4 C2859  C2858  C2855  C2858  C2855  C2858  C2855  C2856  C2857  C2858	21
7 C2612 J 07742  G 25 C2653  G 7 C2653  PE 12 C2667 H 02631  PE 12 C2667 H 02631  PLACEA  31 C2736  32 C2768  33 C28C5  A C2829  A C2829  A C2839  A C2845  A C2855	ALC. TACO. 1 CPT 1C TYPE
NC CAMCa   35 C2653   1 C2676   1 C2640   3 C25C8   1 C2640   3 C25C8   4 O2631   1 C2659   3 C2667   4 O2631   1 C2659   3 C2768   3 C2768   3 C2829   3 C2838   4 C2645   3 C2838   4 C2645   3 C2845   3 C2845   3 C2845   3 C2845   3 C2845   3 C2845   3 C2832   3 C2835   3	TYPEIT
G C2676  READD  REACE  REACE  READD  REACE	AMISFEED ERR-VISLAL CK SHCKS
7 C2640 J C2568 READD READD READD READD 31 C2736 RC2648 RC2659 J C7742 RC265 RC2658 RC265 RC2658 RC2688 RC2	a at REAC STATICN-FIX CARCa.6
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C2659   C7142	ALI, TACO, 1 CPT 1C
## C2736  PLACE  NCE LUE TC7  37 C28C5  24 C2829  7 C2831 J 025C8  7 C2831 J 025C8  7 C2831 J 025C8  7 C2838 K G2645  7 C2838 J G2855  7 C2858 J G2855  7 C2858 J G2855  7 C2858 J G2855  7 C2870 J G2832  7 C2870 J G2932  7 C2871 J G2932  7 C2875 J G2932  7 C2875 J G2932  7 C2875 J G2932	TYPEIT
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LUE TG7  24 C2829  7 C2831 J 025C8  7 C2838 R C2645  7 C2845 J C2856  7 C2858 D C7177  8 C2858 D C7177  12 C2858 D C7177  12 C2858 D C7177  12 C2876 B 02932  7 C2848 J C6023  7 C2848 J C6023  7 C2848 J C6023  7 C2848 J C6023  7 C2848 J C2932  7 C2848 J C2932	& INSTRUCTION-CARD IN MRCNG
24 C2829 7 C2831 J 025C8 7 C2838 R C2645 7 C2838 B C2645 7 C2858 D C7177 8 C2858 D C7177 12 C2858 D C7177 12 C2876 B 02932 7 C2895 B 061d6 11 C29C7 A 073C3 7 C2878 J C2932	& CR JAM-IF COS CUT OF SEC
7 C2831 J 025C8 7 C2838 R G2645 7 C2845 J G2855 6 C2852 • C7177 12 C2876 B G7177 12 C2876 B 02932 7 C2895 B 06166 11 C29C7 A 073C7 7 C2975 J 02932	a JAM, RELUAC ALL DATA CCSa,G
7 C2838 R C2645 PCVE	REAC
7 C2845 J C2855 FESS 6 C2858 D C7177 C C2870 B C7177 12 C2876 B C2937 7 C2848 J C6023 7 C2848 J C6023 7 C2848 J C6023 7 C2858 B O6146 11 C29C7 A 073C3 7 C2975 J C2932	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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6 C2870 a G7177 12 C2876 B 02932 7 C2888 J G6023 12 C2895 B 061d6 11 C29G7 A 073G3 7 C2975 J 02895	HEREAD MESSES MEYE CE NYBR TO
12 C2876 B 02932 7 C2868 J G6023 12 C2895 B 06146 11 C2907 A 07303 7 C2918 J C2932 7 C2925 J 02895	
PESSAGE 7 C2848 J G6023 12 C2895 B 06146 11 C29C7 A 073C3 7 02918 J 02932 7 C2925 J 02855	
MESSAGE 12 C2495 B 06146 11 C29C7 A 073C7 7 02918 J C2932 7 C2955 J 02855	-CKCNC-3.1
12 C2895 B O6166 11 C29C7 A 073C3 7 C2918 J C2932 F	
11. C29G7 A 073G3 7. C2918 J C2932 7. C2975 J 02895	ARITS, FORENE-3,1 ILLEGAL
7 02918 J 02932 7 02925 J 02855	YYY•222 USE
7 C2975 J	CENT TIPING
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TI ADDRS INSTRUCTION	*	1 02932 N		7	12 C2947 H 02966 C1264	3 03424	•	85500	•	•	100000000000000000000000000000000000000			6 02558 , 07100	12 C3CC4 V C3316 07288 1	ں	״	12 C3C34 B C3132 C1CCO 1	•	12 63652 0 07173 67417 /	£ 63664 a 67177		£ C3CB2 . 070C0	12 63638 0 07679 67621 1	0000 ti 00160 9	7 C31C6 J 06047	12 C3113 B 02495 G1001 1	7 63125 J 03157	12 63132 8 03151 01602 1	7 63144 J 03113	£ C3151 • 03113					8 02502	11 63181 6 07281 66634	
				RESE INTERFECT	. 1		TC PRICRITY ROUTINE	ILLEGAL		SWITCH FCR LAST CARE	TC RESET			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	יי אורג	LAST CARD		HRANCH EGUAL	BRNCF IC BYPASS IIP	V 23 CF 00 44 CF 00 CF 0	אנע וו אימא זו אינט	à.	S CISPLAT CARL		נוסוראו נדט	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1001	FRUCEU TARS 15 1		משנע איני דיייי	FALL & LPECK TON LCC			BRANCH IC END			
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	PGL IN LABEL	*	1270 CENT	1271 ANY	1272	1273	1274	1275 CAN	1276	1217 SWP	· · ·	1279	1280	1281	1282 CCMP	1283	1284	1285	1286	1287	1288	1289	1250	1521	1252	1293	1254	1255 XXXX	1256	1257 68	1258	1259 +LF	1300	1361		13C3 ACD	1364	

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EXT Bh :-18.8LANK 101 CLEARS HP Sh ELANK Sh ICH CN Sh ELANK SET SNITCH CN G G CNh G CNh TURK Sh ITCH CF CLI Ch ELANK TURK Sh ITCH CF CLI Ch ELANK TURK Sh ITCH CF CLI Ch ELANK TURK Sh ITCH CF CH I ERP G ERRCR BRANCH CN CHAN 2 G CPR1 ERR1 ERRCR BRANCH CN CHAN 2 B CREh ERR2 ERRCR BRANCH CN CAN VIN B G S95946X5 BACK IG PAIN PGP CON THE CONTROL OF THE CO	7
EXT BYPA INTERR EXIT PRICRITY ALERT MCI  Sh	12 C3462 Y C36C4 12 C3469 V O3462 6 C3481
EXT Sh	12 C3469 V 03462
B. CON  CLI CN ELANK TURN SMITCH CN CLINE  FLY ECPRI ERRI ERRER BRANCH CN CHAN 10  R2 BLPR CUR ERRI ERRCR BRANCH CN CHAN 12  R3 BIPR CUR PRICRITY INCUIRY BRANCH  R4 B \$95946X5 BACK IC PAIN PGP  CUR ECE YBP, ICCO, I BRANCH TC EYPASS TYPE  CUR ECE YBP, ICCO, I BRANCH TC EYPASS TYPE  CUR ECE YBP, ICCO, I BRANCH TO LINGERRUPI ROUT  COP COP TO THE RECUINE  COP THERRUPI ERRCR  INTERR B ITR COPPCN IVE RCUINE  INTERR B COPPCN IVE RCUINE  CCP COPPCN IVERRUPI ROUT  SERANCHED COPPCN IVE RCUINE  CCP COPPCN IVERRUPI ROUT  SERANCHED COPPCN IVERRUPI R	6       C3481       • 07287         7       C3487       J 62946         7       C350       J 05001         7       C350       J 05001         7       C350       J 05001         8       C3514       Y 03486         9       7       C3528       Y 03416         1       C3528       Y 03416         1       C3528       Y 03416         1       C3535       J 99224         1       C3535       J 99224         1       C3554       J 07742         28       C3558       J 01005         7       C3590       J 01005
INTERRUPT RCUTINE  CLT Ch elank turn shitch CFF CLT Ch elank turn shitch CFF ELY ECPRI ERRI ERRCR HRANCH CN CHAN II R1 ECPR2 ERR2 ERRCR BRANCH CN CHAN 2 R2 BLPR ERR3 ERRCR BRANCH CN 2NC VIN R3 BIPR CUR PRICRITY INCUIRY BRANCH R4 B \$95946X5 BACK IC MAIN PGF R4 B \$95946X5 BACK IC WAIN PGF R4 B \$195946X5 BACK IC WAIN PGF R5 BACK IC MAIN PGF R6 TYPEIT CCPPCN TYPE RCUTINE CCM SBRANCHEC CN PRICRITY INCUIRYS, C TYPEIT CCPPCN TYPE RCUTINE B R4 BACK IC INTERRUPT ROUT  1 INCICATE INTERRUPT ERRCR 1 INCICATE INTERRUPT ERRCR 1 INTERR B ITPR 1 CCPPCN TYPE RCUTINE 1 INTERR B ITPR 1 INTERR B ITPR 1 INTERRUPT OIL TAKES	7 C3487 J C2966  6 C3454 B O7287  7 C35C0 J O5C01  7 C35C7 Y C36BC  7 C3514 Y O3416  7 C3514 Y O3416  7 C3518 Y O3542  7 C3528 Y O3542  7 C3535 J 95224  7 C3554 B C3590  7 C3554 J O7742  28 C3558
CUT Ch CLANK TURN ShITCH CFF  CUT Ch CLANK TURN ShITCH CFF  FLY CPRE ERRE ERRCH BRANCH Ch CHAN 2  R2 BUPR ERRE ERRCH BRANCH Ch CHAN 2  R4 B 99594EX5 BACK TC FAIN PGF  1 INCICATE ERANCH TC EYPASS TYPE  CUR CHANCH TC EYPASS TYPE  TYPEIT CCPPCN TYPE RCUTINE  CUR CHANCH CC PRICRITY INCUIRYS, C  TYPEIT CCPPCN TYPE RCUTINE  B R4 BACK TC INTERRUPT ROUT  1 INCICATE INTERRUPT ERRCR  1 TYPEIT CCPPCN TYPE RCUTINE  CCP CONTINERRUPT ERRCR  1 TYPEIT CCPPCN TYPE RCUTINE  CCP CT INTERRUPT GOTON TYPE RCUTINE  1 TYPEIT CCPPCN TYPE RCUTINE	6 C3454 B O7287 7 C35C0 J O5CC1 7 C35C7 Y C36BC 7 C3514 Y O3748 7 C3528 Y O3816 7 C3528 Y O3816 7 C3528 Y O3542 7 C3535 J 99224 7 C35542 B C3590 7 C3554 J O7742 28 C3558
CLI Ch ELANK TURN ShITCH CFF  CLI Ch ELANK TURN ShITCH CFF  FLY ECPRI ERRI ERRCR HRANCH CN CHAN 19  R1 ECPR2 ERR2 ERRCR BRANCH CN CHAN 2  R2 BLPR CUR PRICRITY INCUIRY BRANCH  R4 B \$9594£X5 BACK TC PAIN PGP  CUR CUR BRANCH TC LYPASS TYPE  B TYPEIT CCPPCN TYPE RCUIINE  CCM ZBBANCHEC CN PRICRITY INCUIRYS, C  YEP B ITR  R4 BACK TC INTERRUPT ROUT  1 INCICATE INTERRUPT ERRCR  1 TYPEIT CCPPCN TYPE RCUIINE  CCM ZBBANCHEC CN PRICRITY INCUIRYS, C  TO TREATH BACK TC INTERRUPT ROUT  1 INCICATE INTERRUPT ERRCR  1 TYPEIT CCPPCN TYPE RCUIINE	6 C3454 B 07287 7 C35C0 J 05CC1 7 C35C7 Y C36BC 7 C3514 Y 03748 7 C3514 Y 03748 7 C3518 Y 03542 7 C3528 Y 03542 7 C3528 J 09724 7 C35542 B C3590 7 C3554 J 07742 28 C3558
CLI Ch ELANK TURN ShITCH CFF  ELY ECPRI ERRI ERRCR HRANCH CN CHAN 10  R1 ECPR2 ERR2 ERRCR BRANCH CN CHAN 2  R2 BLPR QUR PRICRITY INQUIRY BRANCH  R4 B \$95946X5 BACK IC MAIN PGP  CUR ECE YBP,10CO,1 BRANCH IC EYPASS TYPE  B ITR COPPCN TYPE RCUTINE  CCM ABRANCHEC CN PRICRITY INCUIRYAG,C  INCICATE INTERRUPT ERRCR  INTERR B TYPEIT CCPPCN TYPE RCUTINE  CCM AINTERRUPT DIC NOT TAKE®	6 C3454 B 07287 7 C35C0 J 05CC1 7 C35C7 Y C36BC 7 C3514 Y 03748 7 C3514 Y 03748 7 C3528 Y 03542 7 C3528 Y 03542 7 C3535 J 99224 7 C3535 J 07742 28 C3558
CLT Ch ELANK TURN SHITCH CFF  FLY ECPRI ERRI ERRCR HRANCH CN CHAN 2  R2 BLPR CUR ERR3 ERRCR BRANCH CN ZNC VII  R3 BIPR CUR PRICRITY INQUIRY BRANCH  A S95946X5 BACK IC MAIN PGP  A INCICATE BRANCH CN INCUIRY RCLIINE  CUR ECE YBP, ICCO, I BRANCH IC EYPASS TYPE  B TYPEIT CCHPCN TYPE RCLIINE  CCM ABRANCHEC CN PRICRITY INCUIRYA; G  B ITR B ACK IC INTERRUPT ROUT  A B A BACK IC INTERRUPT ROUT  A B A BACK IC INTERRUPT BOUT  A B A BACK IC INTERRUPT BOUT  B R4 BACK IC INTERRUPT BOUT  A INTERR B ITR CCPPCN TYPE RCLIINE  A INTERRUPT BIC NGI TAKE	6 C3454 B 07287 7 C35C0 J 05CC1 7 C35C7 Y C36BC 7 C3514 Y 03748 7 C3528 Y 03816 7 C3528 Y 03542 7 C3528 Y 03542 7 C3535 J 992Z4 7 C35542 B C3590 7 C3554 J 07742 28 C3558
FLY  CCPR1  ERRI  ERRCR HRANCH CN CFAN 11  R1  ECPR2  ERR2  ERRCR HRANCH CN CTAN 2  B1PR  CUR  ERR3  ERRCR BRANCH CN 2NC VII  PRICRITY INCUIRY BRANCH  A 595946X5  B 795946X5  B 795946X5  B 795946X5  B 795946X5  B 79611  CCPPCN TYPE RCUIINE  CCP CN PRICRITY INCUIRYS  CCR CERRANCH CC PRICRITY INCUIRYS  CCR CERRANCH CC N PRICRITY INCUIRYS  B 74  B 74  B 74  B 74  B 75  INCICATE INTERRUPT ERRCR  B 77  INTERR B 17  INTERR B 17  CCPPCN TYPE RCUIINE  CCP CONTRIBURATION CCP TYPE RCUIINE  CCP CONTRIBURATION CCP TYPE RCUIINE  CCP CONTRIBURATION CCP TARES	7
RI ECPRZ ERRZ ERRCR BRANCH CN CHAN 19 RZ BLPR ERR3 ERRCR BRANCH CN 2NC VIN R3 BIPR QUR PRICRITY INQUIRY BRANCH R4 B 995946X5 BACK IC FAIN PGF CUR BCE VBP.10CO.1 BRANCH IC EYPASS IYPE B IYPEIT CCPFCN IYPE RCUTINE CCM ZBRANCHED CN PRICRITY INGUIRYZ.6 B ITR B R4 BACK IC INTERRUPT ROUT  " INCICATE INTERRUPT ERRCR " INFETT CCPFCN IYPE RCUTINE B R4 BACK IC INTERRUPT ROUT B R4 BACK IC INTERRUPT ROUT CFFCN IYPE RCUTINE CCFFCN IYPE RCUTINE CCFFCN IYPE RCUTINE CCFFCN IYPE RCUTINE CCFFCN IYPE RCUTINE	7
RI BEPRZ ERRZ ERRCR BRANCH CN CHAN Z  R2  R3  B1PR CUR PRICRITY INCUIRY BRANCH  R4  B \$95946X5 BACK IC FAIN PGP  CUR BCE YBP,10CO,1 BRANCH IC EYPASS TYPE  B TYPEIT CCPPCN TYPE RCUINE  CCM ZBRANCHEC CN PRICRITY INCUIRYS,6  YBP  B ITR  B R4  BACK IC INTERRUPI ROUT  INCICATE INTERRUPI ERRCR  INTERR B TYPEIT CCPPCN TYPE RCUIINE	7 C3514 Y G3748 7 C3521 Y G3816 7 C3528 Y G3542 7 C3535 J 99224 12 C3542 B C3590 7 C3554 J G7742 28 C3558
R2 B1PR CUR R4 B \$9594EX5  CUR BCE YBP,1GCO,1 BCK ABRANCHEC CN DCK ABRANCHEC CN DCK BRANCHEC CN B ITR B R4 B A4 B CCC INCICATE INTERR	03521 Y 03816 C3528 Y 03542 C3535 J 95224 C3542 B C3590 C3554 J 07742 C3568 C3590 J 010C5
R4 B 995946X5  INCICATE BRANCH  CUR BCE YBP.10C0.1  RPEIT  CCK ABRANCHEC CN  R4  B ITR  B ITR  CCK ALINTERR  CCK ALINTERRUPI D	C3535
R4 B S9594EX5  INCICATE BRANCH  CUR BC YBP, LGCO, I  R7PEIT  CCK ABRANCHEC CN  YBP B ITR  B R4  INCICATE INTERR  INTERR B ITPEIT  CCK AINTERRUPI D	C3535 J 99224 C3542 B C3590 C3554 J 07742 C3568 C3590 J 01005
CUR ECE YBP.10CG.1  CUR ECE YBP.10CG.1  CCM EBRANCHEC CN  TOWER B ITR  B R4  INCICATE INTERR  INTERR B ITYPEIT  CCM EINTERRUPI D	C3542 6 C3590 C3554 J 07742 C3588
CUR BCE YBP,10CO,1 CUR BCE YBP,10CO,1 CCK ZBRANCHEC CN CCK ZBRANCHEC CN CCK ZBRANCHEC CN ITR B R4 ITR B R4 INCICATE INTERR INTERR B ITYPEIT CCK ZINTERRUPT D	C3542 B. C3590 C3554 J 07742 C3568 C3590 J 01005
CUR BCE YBP,10CO,1 B TYPEIT CCM ABRANCHEC CN B ITR B R4 C INCICATE INTERR C TYPEIT CCM AINTERRUPT D	C3542 6 C3590 C3554 J 07742 C3588
CUR BCE YBP.10CO.1  B TYPEIT  CCM ABRANCHEC CN  B R4  B R4  INCICATE INTERR  INTERR B TYPEIT  CCM AINTERRUPT D	C3542 6 C3590 C3554 J 07742 C3568 C3590 J 010C5
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**  B R4  B R4  • INCICATE INTERR  INTERR B IYPEIT  CCh ZINTERRUPT D	7
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INCICATE INTERRUPT ERRCR INTERR B TYPETT CCP.MCN TYPE CCM AINTERRUPT DIC NOT TAKES	7 03597 J 03535
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	22 03632
1369 RC & PLACE PROPERLY2.6	15 C3647
1370 CBA Ch BLANK TURN SKITCH CFF	6 C3649 n C7287
1371 BCE CRC, 10C2, 1 TC FALT	12 C3655 B 03674 01C02 1
1372 B CAN BYFASS FALL	7 03667 J 02966
1373 CRG H CNA HALT AND LCCP	£ 03674 • 02966
1375. * ERRCRS IN INTERRUFT KCUTINE	
1377 ERRJ BCE EYP, ICCO, I BRANCH TO BYPASS TYPE	12 03680 8 63723 01600 1

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	PGL 1N	LABEL	CFCCD	CPERANC		•	CT ACERS	S INSTRUCTION	
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ï	1362	CRC	<b>1</b>	1 &	HALI-PRESS START IC GC		6 . 03742	12 . 03514	
	1383	ERR2	BCE	EPY,1CCO,1	BRANCH TO EYPASS TYPE		12 03748	18 8 63791 61660 1	
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ð	1350		<b>8</b> 3	TYPEIT	CCMMCN TYPE KCLTINE		7 63828	38 J C7742	
	1361		CCP	SHRANCHEC C	Ch SECCND YILZ,C	•	22 03856	i6	
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